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•	Application No.	Applicant(s)
Notice of Allowability	10/692,496	HELMER ET AL.
Notice of Allowability	Examiner	Art Unit
	BARBARA N. BURGESS	2457
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication (GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>Appeal Brief filed Nov</u>	vember 20, 2008.	
2. The allowed claim(s) is/are <u>1-5,7-12,14-18 and 20</u> .		
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority unappriority and any and any any any any any any any any any any</li></ul>	been received. been received in Application No	
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>		
Attachment(s)	E	latant Application
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<ol> <li>5. ☐ Notice of Informal P</li> <li>6. ☒ Interview Summary</li> </ol>	* *
2. In Notice of Draitperson's Faterit Drawing Neview (F10-540)	Paper No./Mail Da	te <u>2-9-09</u> .
Information Disclosure Statements (PTO/SB/08),     Paper No./Mail Date	7. 🛛 Examiner's Amendr	7. X Examiner's Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Stateme	ent of Reasons for Allowance
	9.  Other	
	/ARIO ETIENNE/ Supervisory Patent Exa	aminer, Art Unit 2457

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this Examiner's Amendment was given in a telephone interview with Jeffrey Giunta on February 9, 2009.

## IN THE CLAIMS

Please amend the following claims:

8. (Currently Amended) A computing node comprising:

a processor;

## a main memory;

a fast data element transmitter adapted to:

identify a pre-defined destination node, the pre-defined destination node being within a plurality of remote computer nodes to which data packets are able to be sent over a data communications network;

queue, in an expedited transmission queue that is separate from a normal data packet queue, a first data packet that is addressed to the pre-defined destination node, wherein the normal data packet queue is used to queue data packets for transmission to other computing systems within the plurality of remote computer nodes, the other

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computing systems comprising destination nodes that are not the pre-defined destination node;

send, through a communications adapter, the first data packet to the pre-defined destination node; and

a fast descriptor interface adapted to load a packet descriptor associated with a second data packet into the communications adapter concurrently with the sending of the first data packet by the fast data element transmitter, wherein the packet descriptor identifies the pre-defined destination and is used to configure the fast data packet transmitter for transferring a second data element, and

wherein the fast data element transmitter is further adapted to transfer, in dependence upon the packet descriptor, the second data packet to the second destination node over the data communications network.

14. (Currently Amended) A <u>non-volatile memory</u> tangibly encoded with a program which, when executed by a processor, performs operations for transferring a data message, the operations comprising:

identifying a pre-defined destination node, the pre-defined destination node being within a plurality of remote computer nodes to which data packets are able to be sent over a data communications network;

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queuing, in an expedited transmission queue that is separate from a normal data packet queue, a first data packet that is addressed to the pre-defined destination node, wherein the normal data packet queue is used to queue data packets for transmission to other computing systems within the plurality of remote computer nodes, the other computing systems comprising destination nodes that are not the pre-defined destination node;

sending, through a communications adapter, the first data packet to the predefined destination node;

loading a packet descriptor associated with a second data packet into the communications adapter, wherein the loading is concurrent with the sending and the packet descriptor identifies a second destination node that is the pre-defined destination node; and

transferring, in dependence upon the packet descriptor, the second data packet to the second destination node over the data communications network.

15. (Currently Amended) The <u>non-volatile memory</u> of claim 14, wherein the expedited transmission queue comprises a fast data queue, and wherein the sending of the first data packet and the transferring of the second data packet comprises loading the first data packet and the second data packet into the fast data queue, wherein the fast data queue only queues data packets for transmission to the pre-defined destination node over the data communications network.

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16. (Currently Amended) The <u>non-volatile memory</u> of claim 14, wherein each of at least one of the first

data packet and the second data packet each comprise a user data portion that is equal to a size of a cache buffer.

17. (Currently Amended) The <u>non-volatile memory</u> of claim 14, wherein the loading further comprises

configuring, concurrently with the sending of the first data packet to the pre-defined destination node, the communications adapter for the transferring of the second data packet to the pre-defined destination node over the data communications network.

18. (Currently Amended) The <u>non-volatile memory</u> of claim 14, wherein the expedited transmission

queue comprises a fast data queue and a fast descriptor queue, and

wherein the loading operation comprises loading the packet descriptor into the fast descriptor queue for subsequent transfer to the communications adapter, and wherein the method further comprises loading the second data packet that is associated with the packet descriptor into the fast data queue.

20. (Currently Amended) The <u>non-volatile memory</u> of claim 18, wherein the operations further comprise altering the packet descriptor, after the loading the packet descriptor and while the packet descriptor is in the fast descriptor queue, so as to change the second destination node to be a remote destination node that is different than the pre-defined destination node, and

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reloading the packet descriptor into the communications adapter after the altering and prior to transferring the second data packet.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BARBARA N. BURGESS whose telephone number is (571)272-3996. The examiner can normally be reached on M-F (8:00am-4:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Barbara N Burgess/ Examiner, Art Unit 2457

Barbara N Burgess Examiner Art Unit 2457

February 9, 2009

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/ARIO ETIENNE/

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